

INTERNATIONAL SEARCH REPORT

International application No.
PCT/CA2004/002097

A. CLASSIFICATION OF SUBJECT MATTER

IPC7-H02K 1/06, H02K 21/10
According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC7-H02K 1/00, H02K 21/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic database(s) consulted during the international search (name of database(s) and, where practicable, search terms used)

Databases Searched: Delphion, Pluspat; IEEE Xplore; Canadian Patent Database; USPTO
Keywords: air* gap and stator and rotor and (polyphase or multiphase)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No(s).
X	WO 0131766 (Gianni et al.) 03 May 2001 (03-05-2001) ** Entire document **	1-11,13-14
Y		12
Y	US 5,955,810 (Umeda et al.) 21 Sep. 1999 (21-09-1999) [Col 2 Lines 17-27]	12
A	US 6,495,941 (Nishimura) 17 Dec. 2002 (17-12-2002) ** Entire document **	1-14
A	US 6,512,314 (Nakanishi) 28 Jan. 2003 (28-01-2003) ** Entire document **	1-14

[] Further documents are listed in the continuation of Box C.

[X] See patent family annex.

* Special categories of cited documents :
 "A" document defining the general state of the art which is not considered to be of particular relevance
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 "O" document referring to an oral disclosure, use, exhibition or other means
 "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
 "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
 "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
 "&" document member of the same patent family

Date of the actual completion of the international search
14 February 2005 (24-02-2005)

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21 March 2005 (21-03-2005)

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Canadian Intellectual Property Office
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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.
PCT/CA2004/002097

Patent Document Cited in Search Report	Publication Date	Patent Family Member(s)	Publication Date
WO0131766	03-05-2001	AU766710 B2 AU1313201 A BR0015098 A CA2388930 A1 CN1384993T T EP1230725 A1 JP2003513599T T MXPA02004105 A NZ500679 A WO0131766 A1 ZA200203226 A	23-10-2003 08-05-2001 29-10-2002 03-05-2001 11-12-2002 14-08-2002 08-04-2003 20-08-2003 26-04-2002 03-05-2001 23-07-2003
US5955810	21-09-1999	AU710990 B2 AU729271 B2 AU3686799 A AU4222897 A AU5829198 A BR9801214 A BR9801695 A CA2231123 A1 CA2238504 A1 CA2238600 A1 CN1073299C C CN1085430C C CN1134881C C CN1200591 A DE60001526D D1 DE60001526T T2 DE69800498D D1 DE69800498T T2 DE69801259D D1 DE69801259T T2 DE69801475D D1 DE69801475T T2 DE69803217D D1 DE69803217T T2 DE69803745D D1 DE69803745T T2 DE69803813D D1 DE69803813T T2 DE69803900D D1 DE69803900T T2 DE69804284D D1 DE69804284T T2 DE69810008D D1 DE69810008T T2 DE69811564D D1 DE69811564T T2 DE69812477D D1 DE69812477T T2 DE69823266D D1 DE69825216D D1 DE69826534D D1 DE69827195D D1 EP0881742 A2 EP0881743 A2 EP0881744 A2 EP0881745 A2 EP0881746 A2 EP0881747 A2 EP0881748 A2 EP0881749 A2 EP0881750 A2 EP0881751 A2 EP0881752 A1 EP0881753 A2 EP0881756 A1 EP0910155 A1 EP0917278 A2 EP0923187 A2 EP1026810 A1 EP1081830 A2	07-10-1999 01-02-2001 02-09-1999 30-12-1998 03-12-1998 13-07-1999 05-10-1999 26-11-1998 26-11-1998 26-11-1998 17-10-2001 22-05-2002 14-01-2004 02-12-1998 10-04-2003 02-10-2003 01-03-2001 06-09-2001 06-09-2001 13-06-2002 04-10-2001 16-05-2002 21-02-2002 29-08-2002 21-03-2002 26-09-2002 21-03-2002 12-09-2002 28-03-2002 12-09-2002 25-04-2002 31-10-2002 23-01-2003 25-09-2003 03-04-2003 24-12-2003 30-04-2003 29-01-2004 27-05-2004 02-09-2004 28-10-2004 02-12-2004 02-12-1998 02-12-1998 02-12-1998 02-12-1998 02-12-1998 02-12-1998 02-12-1998 02-12-1998 02-12-1998 02-12-1998 02-12-1998 02-12-1998 02-12-1998 02-12-1998 02-12-1998 21-04-1999 19-05-1999 16-06-1999 09-08-2000 07-03-2001

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/CA2004/002097

EP1179881 A1	13-02-2002
EP1227567 A2	31-07-2002
EP1237254 A1	04-09-2002
EP1465321 A2	06-10-2004
ES2154065T T3	16-03-2001
ES2187855T T3	16-06-2003
ID20396 A	03-12-1998
JP2927288B2 B2	28-07-1999
JP3271582B2 B2	02-04-2002
JP3303773B2 B2	22-07-2002
JP3381608B2 B2	04-03-2003
JP3405280B2 B2	12-05-2003
JP3407643B2 B2	19-05-2003
JP3436148B2 B2	11-08-2003
JP3438569B2 B2	18-08-2003
JP3438570B2 B2	18-08-2003
JP3438581B2 B2	18-08-2003
JP3438606B2 B2	18-08-2003
JP3456140B2 B2	14-10-2003
JP3456144B2 B2	14-10-2003
JP11075334 A	16-03-1999
JP11164500 A	18-06-1999
JP11164505 A	18-06-1999
JP11191946 A	13-07-1999
JP11341730 A	10-12-1999
JP11346448 A	14-12-1999
JP2001054263 A	23-02-2001
US5936326 A	10-08-1999
US5952749 A	14-09-1999
US5955810 A	21-09-1999
US5965965 A	12-10-1999
US5982068 A	09-11-1999
US5986375 A	16-11-1999
US5994813 A	30-11-1999
US5998903 A	07-12-1999
US6011332 A	04-01-2000
US6020669 A	01-02-2000
US6051906 A	18-04-2000
US6091169 A	18-07-2000
US6097130 A	01-08-2000
US6124660 A	26-09-2000
US6137201 A	24-10-2000
US6144136 A	07-11-2000
US6181043 B1	30-01-2001
US6181045 B1	30-01-2001
US6198190 B1	06-03-2001
US6291918 B1	18-09-2001
US6459177 B1	01-10-2002
US6459186 B1	01-10-2002
WO9854822 A1	03-12-1998
WO9854823 A1	03-12-1998

US6495941	17-12-2002	DE10056556 A1 JP2001327135 A US6495941 B1	06-12-2001 22-11-2001 17-12-2002
-----------	------------	---	--

US6512314	28-01-2003	DE69112651D D1 DE69112651T T2 EP0438301 A1 JP3273845 A US6512314 B1	12-10-1995 09-05-1996 24-07-1991 05-12-1991 28-01-2003
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